

```

<!--StartFragment-->RESULT 18
US-10-302-689A-144489/c
; Sequence 144489, Application US/10302689A
; Publication No. US20080050393A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Asundi, Vinod
; APPLICANT: Ballinger, Dennis
; APPLICANT: Labat, Ivan
; APPLICANT: Leshkowitz, Dena
; APPLICANT: Liu, Jin
; APPLICANT: Loeb, Deborah
; APPLICANT: Montgomery, Julia, R.
; APPLICANT: Pace, Ann M.
; APPLICANT: Sheridan, James P.
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 502CIP
; CURRENT APPLICATION NUMBER: US/10/302,689A
; CURRENT FILING DATE: 2002-11-22
; PRIOR APPLICATION NUMBER: 10/273,573
; PRIOR FILING DATE: 2002-10-18
; PRIOR APPLICATION NUMBER: 10/084,643
; PRIOR FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: 09/989,660
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: 10/014,487
; PRIOR FILING DATE: 2001-11-08
; PRIOR APPLICATION NUMBER: 09/952,981
; PRIOR FILING DATE: 2001-09-14
; PRIOR APPLICATION NUMBER: 09/922,279
; PRIOR FILING DATE: 2001-08-03
; PRIOR APPLICATION NUMBER: 09/905,059
; PRIOR FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: 09/898,888
; PRIOR FILING DATE: 2001-07-03
; PRIOR APPLICATION NUMBER: 09/919,002
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 09/770,160
; PRIOR FILING DATE: 2001-01-26
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 158931
; SOFTWARE: pt_SEQ_genes Version 1.0
; SEQ ID NO 144489
;   LENGTH: 6397
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-10-302-689A-144489

```

```

Query Match          93.3%;   Score 2866.6;   DB 17;   Length 6397;
Best Local Similarity 96.6%;   Pred. No. 0;
Matches 3058;   Conservative    0;   Mismatches    14;   Indels    93;   Gaps    9;

```

```

Qy          1 ATGTGCGCGCGGATGGCCGGTCGCACAACAGCGGCCCCCTCGGGGGCCCTACGGCCCCCTGG 60
             |||
Db          5422 ATGTGCGCGCGGATGGCCGGTCGCACAACAGCGGCCCCCTCGGGGGCCCTACGGCCCCCTGG 5363

Qy          61 CTCTGCCTCCTGGTGGCCCTCGCCCTGGACGTCGTGAGA----- 99
             |||
Db          5362 CTCTGCCTCCTGGTGGCCCTCGCCCTGGACGTCGTGAGAGGGATGGCCGCATCCTTGCCT 5303

Qy          100 ----- 99
Db          5302 TCCAGAACCTTTGAGAGGATTCTGTCACTGCGGGAAAGGGCAGCAACTTCCCTGTGCTT 5243

```

Qy	100	---GTGGACTGTGGCCAGGCTCCCCTGGACCCTGTCTACCTGCCGGCAGCCCTGGAGCTC	156
Db	5242	CGGGTGGACTGTGGCCAGGCTCCCCTGGACCCTGTCTACCTGCCGGCAGCCCTGGAGCTC	5183
Qy	157	CTAGACGCCCCCTGAACACTTCCGTGTGCAGCAGGTGGGCCACTACCCACCTGCCAACTCC	216
Db	5182	CTAGACGCCCCCTGAACACTTCCGTGTGCAGCAGGTGGGCCACTACCCACCTGCCAACTCC	5123
Qy	217	TCTCTGAGCTCCCGATCTGAGACCTTTCTGCTCCTACAGCCCTGGCCCAGGGCCCAGCCA	276
Db	5122	TCTCTGAGCTCCCGATCTGAGACCTTTCTGCTCCTACAGCCCTGGCCCAGGGCCCAGCCA	5063
Qy	277	CTTCTCCGGGCCTCCTACCCACCTTTTGCCACTCAGCAGGTGGTCCCCCTCGAGTCACT	336
Db	5062	CTTCTCCGGGCCTCCTACCCACCTTTTGCCACTCAGCAGGTGGTCCCCCTCGAGTCACT	5003
Qy	337	GAGCCCCACCAACGGCCAGTCCCATGGGACGTGCGGGCCGTTTCAGTGGAAGCGGCTGTG	396
Db	5002	GAGCCCCACCAACGGCCAGTCCCATGGGACGTGCGGGCCGTTTCAGTGGAAGCGGCTGTG	4943
Qy	397	ACTCCAGCAGAGCCCTACGCCCCGGTTCTCTTCCACCTCAAAGGGCAGGATTGGCCACCA	456
Db	4942	ACTCCAGCAGAGCCCTACGCCCCGGTTCTCTTCCACCTCAAAGGGCAGGATTGGCCACCA	4883
Qy	457	GGGTCTGGCAGCCTGCCCTGTGCCCGGCTCCATGCCACACACCCTGCAGGCACTGCTCAC	516
Db	4882	GGGTCTGGCAGCCTGCCCTGTGCCCGGCTCCATGCCACACACCCTGCCGGCACTGCTCAC	4823
Qy	517	CAAGCCTGCCGCTTCCAGCCATCCCTGGGCGCCTGCGTGGTGGAGCTGGAGCTTCCCTCG	576
Db	4822	CAAGCCTGCCGCTTCCAGCCATCCCTGGGCGCCTGCGTGGTGGAGCTGGAGCTTCCCTCG	4763
Qy	577	CACTGGTTCTCACAGGCCTCCACCACACGGGCGGAGCTGGCCTACACGCTTGAGCCTGCA	636
Db	4762	CACTGGTTCTCACAGGCCTCCACCACACGGGCGGAGCTGGCCTACACGCTTGAGCCTGCA	4703
Qy	637	GCTGAGGGCCCTGGGGGCTGTGGCTCCGGCGAGGAGAACGACCCTGGGGAGCAGGCCCTC	696
Db	4702	GCTGAGGGCCCTGGGGGCTGTGGCTCCGGCGAGGAGAACGACCCTGGGGAGCAGGCCCTC	4643
Qy	697	CCAGTGGGGGGTGTGGAGCTGCGCCCAGCAGACCCCCCGCAGTACCAGGAGGTACCTCTG	756
Db	4642	CCAGTGGGGGGTGTGGAGCTGCGCCCAGCAGACCCCCCGCAGTACCAGGAGGTACCTCTG	4583
Qy	757	GACGAGGCTGTGACTCTGCGGGTGCCTGACATGCCAGTGCGGCCCCGGCCAGCTCTTTAGT	816
Db	4582	GACGAGGCTGTGACTCTGCGGGTGCCTGACATGCCAGTGCGGCCCCGGCCAGCTCTTTAGT	4523
Qy	817	GCTACCCCTCCTGCTTCGGCACAACCTTCACAGCCAGCCTCCTGACCCTGCGGATCAAGGTG	876
Db	4522	GCTACCCCTCCTGCTTCGGCACAACCTTCACAGCCAGCCTCCTGACCCTGCGGATCAAGGTG	4463
Qy	877	AAGAAGGGGGCTGCATGTGACAGCCGCCCGCCAGCCAGCCACACTCTGGACTGCCAAG	936
Db	4462	AAGAAGGGGGCTGCATGTGACAGCCGCCCGCCAGCCAGCCACACTCTGGACTGCCAAG	4403
Qy	937	CTAGACCGCTTCAAGGGCTCCAGGCACCACACCACCCTCATCACCTGCCACCGTGCTGGG	996
Db	4402	CTGGACCGCTTCAAGGGCTCCAGGCACCACACCACCCTCATCACCTGCCACCGTGCTGGG	4343
Qy	997	CTCACAGAGCCAGATTCCAGCAGTCCCCTTGAAGTGTCTGAGTTCCTATGGGTGGACTTT	1056
Db	4342	CTCACAGAGCCAGATTCCAGCAGTCCCCTTGAAGTGTCTGAGTTCCTATGGGTGGACTTT	4283

Qy	1057	GTGGTGGAGAATAGCACTGGTGGGGGCGTAGCGGTCACTCGCCCCGTACGTGGCAGCTG	1116
Db	4282	GTGGTGGAGAATAGCACTGGTGGGGGCGTAGCGGTCACTCGCCCCGTACGTGGCAGCTG	4223
Qy	1117	GAGTACCCAGGCCAGGCCCTGAAGCAGAGAAGGACAAAAT-GGTGTGGGAAATCCTGGT	1175
Db	4222	GAGTACCCAGGCCAGGCCCTGAAGCAGAGAAGGACAAAATCGGTGTGGGAAATCCTGGT	4163
Qy	1176	GTCTGAGCGGGACATCAGAGCCCTTATCCCACTGGCCAAGGCTGAGGAGCTGGTGAATAC	1235
Db	4162	GTCTGAGCGGGACATCAGAGCCCTTATCCCACTGGCCAAGGCTGAGGAGCTGGTGAATAC	4103
Qy	1236	AGCACCAC-TGACTGGAGTGCCCCAGCATGTCCCGTGCGCCTTGTC--ACTGTGGACGG	1292
Db	4102	AGCACCACCTTGACTGGAGTGCCCCAGCATGTCCCGTGCGCCTTGTCCTACTGTGGAACGG	4043
Qy	1293	CGGGGGGGCCTTGGTGGAGGTGACAGAGCATGTGCGCTGCGAGTCTGCCAACACACAGGT	1352
Db	4042	CGGGGGGGCCTTGGTGGAGGTGACAGAGCATGTGCGCTGCGAATCTGCCAACACACAGGT	3983
Qy	1353	CCTGCAGGTGTC-TGAGGCCTGTGATGCCGTGTTTCGTGGCTGGCAAGGAGAGCCGGGGCG	1411
Db	3982	CCTGCAGGTGTCTTGAGGCCTGTGATGCCGTGTTTCGTGGCTGGCAAGGAGAGCCGGGGCG	3923
Qy	1412	CCCGGGGGGTGCG-AGTGGACTTCTGGTGGC-GCCGGCTCCGCGCCTCGCTGCGGCTGAC	1469
Db	3922	CCCGGGGGGTGCGAAGTGGACTTCTGGTGGCGCCGGCTCCGCGCCTCGCTGCGGCTGAC	3863
Qy	1470	CGTGTGGGCCCCGCTGCTACCGCTGCGTATCGAGCTCACCGACACCACCCTCGAGCAGGT	1529
Db	3862	CGTGTGGGCCCCCCTGCTACCGCTGCGTATCGAGCTCACCGACACCACCCTCGAGCAGGT	3803
Qy	1530	CCGCGGCTGGAGGGTACCTGGCCCTGCTGAAGGGCCTGCGGAACCCGCTGCAGAGGCGTC	1589
Db	3802	CCGCGGCTGGAGGGTACCTGGCCCTGCTGAAGGGCCTGCGGAACCCGCTGCAGAGGCGTC	3743
Qy	1590	AGATGAGGCCGAGCGGCGCGCCCGTGGCTGCCACCTGCAGTACCAGCGGGCCGGTGTGCG	1649
Db	3742	GGATGAGGCCGAGCGGCGCGCCCGTGGCTGCCACCTGCAGTACCAGCGGGCCGGTGTGCG	3683
Qy	1650	CTTCCTCGCCCCCTTCGCGGCCACCCGCTGGACGGCGGCCGCGCCTCACGCACCTGCT	1709
Db	3682	CTTCCTCGCCCCCTTCGCGGCCACCCGCTGGACGGCGGCCGCGCCTCACGCACCTGCT	3623
Qy	1710	TGGCCCCGACTGGCTGCTAGACGTGTCCACCTCGTGGCGCCACACGCCCGCTGCTGGA	1769
Db	3622	TGGCCCCGACTGGCTGCTAGACGTGTCCACCTCGTGGCGCCACACGCCCGCTGCTGGA	3563
Qy	1770	CTCGCGTGTAGCCTCTCTGGAGGGTGGCCGTGTCTGGTGGGCGGGAGCCCGGTGTCAC	1829
Db	3562	CTCGCGTGTAGCCTCTCTGGAGGGTGGCCGTGTCTGGTGGGCGGGAGCCCGGTGTCAC	3503
Qy	1830	CTCCATTGAGGTGCGTTCCCCACTGTCTGACTCCATCCTGGGGGAGCAGGCGCTGGCTGT	1889
Db	3502	CTCCATTGAGGTGCGTTCCCCACTGTCTGACTCCATCCTGGGGGAGCAGGCGCTGGCTGT	3443
Qy	1890	GACGGACGACAAGGTCTCAGTGCTGGAGCTGAGGGTGCAGCCAGTGATGGGC-ATCTCGC	1948
Db	3442	GACGGACGACAAGGTCTCAGTGCTGGAGCTGAGGGTGCAGCCAGTGATGGGCAATCTTGC	3383
Qy	1949	TGA-CCTTGAGCCGGGGCACTGCCCACCCGGGGAGGTCACAGCTACGTGCTGGGCACAG	2007
Db	3382	TGACCCTTGAGCCGGGGCACTGCCCACCCGGGGAGGTCACAGCTACGTGCTGGGCACAG	3323

Qy	2008	TCAGCCCTTCCCGCCCCAAAGCAGGAGGTGGCCCTCTCCCTATGGCTGTCCTTCTCTGAT	2067
Db	3322	TCAGCCCTTCCCGCCCCAAAGCAGGAGGTGGCCCTCTCCCTATGGCTGTCCTTCTCTGAT	3263
Qy	2068	CACACTGTGGCCCCAGCTGAGCTCTACGACCGCCGTGACCTGGGACTGTCCGTCTCAGCC	2127
Db	3262	CACACTGTGGCCCCAGCTGAGCTCTACGACCGCCGTGACCTGGGACTGTCCGTCTCAGCC	3203
Qy	2128	GAGGAGCCTGGTGCCATCCTGCCAGCTGAGGAGCAGGGTGCCAGCTCGGGGTGGTGGTG	2187
Db	3202	GAGGAGCCTGGTGCCATCCTGCCAGCTGAGGAGCAGGGTGCCAGCTCGGGGTGGTGGTG	3143
Qy	2188	AGTGGGGCAGGCGCCGAGGGGCTGCCGCTGCATGTGGCTCTGCACCCGCCGAGCCCTGC	2247
Db	3142	AGTGGGGCAGGCGCCGAGGGGCTGCCGCTGCATGTGGCTCTGCACCCGCCGAGCCCTGC	3083
Qy	2248	CGCCGGGGCCGCCACCGTGTGCCTCTGGCCTCTGGCACC GCCTGGCTGGGGCTGCCCCCT	2307
Db	3082	CGCCGGGGCCGCCACCGTGTGCCTCTGGCCTCTGGCACC GCCTGGCTGGGGCTGCCCCCT	3023
Qy	2308	GCCTCCACTCCAGCCCCTGCTCTCCCATCCAGCCCCTGCTTGAGAGCCACCAGCCACAGAA	2367
Db	3022	GCCTCCACTCCAGCCCCTGCTCTCCCATCCAGCCCCTGCTTGAGAGCCACCAGCCACAGAA	2963
Qy	2368	GCCACCATGGGTGGTAAACGGCAGGTGGCAGGCAGTGTGCGGGGCAACACAGGTGTGAGG	2427
Db	2962	GCCACCATGGGTGGTAAACGGCAGGTGGCAGGCAGTGTGCGGGGCAACACAGGTGTGAGG	2903
Qy	2428	GGCAAGTTTGAGCGGGCAGAGGAGGAGGCCAGGAAGGAGGAGACCGAAGCCAGGGAGGAG	2487
Db	2902	GGCAAGTTTGAGCGGGCAGAGGAGGAGGCCAGGAAGGAGGAGACCGAAGCCAGGGAGGAG	2843
Qy	2488	GAGGAGGAAGAGGAGGAGGAGATGGTCCCTGCCCCCTCAGCATGTCACTGAGCTAGAGCTG	2547
Db	2842	GAGGAGGAAGAGGAGGAGGAGATGGTCCCTGCCCCCTCAGCATGTCACTGAGCTAGAGCTG	2783
Qy	2548	GGCATGTACGCCCTGCTGGGAGTCTTCTGCGTGGCCATCTTCATCTTCTTGGTCAATGGT	2607
Db	2782	GGCATGTACGCCCTGCTGGGAGTCTTCTGCGTGGCCATCTTCATCTTCTTGGTCAATGGT	2723
Qy	2608	GTGGTCTTTCGTCTGCGCTATCAGCGCAAAGAACCTCCCGACAGTGCCACTGACCCACC	2667
Db	2722	GTGGTCTTTCGTCTGCGCTATCAGCGCAAAGAACCTCCCGACAGTGCCACTGACCCACC	2663
Qy	2668	TCCCCCAGCCCCACAACCTGGGTCTGGCTGGGCACTGACCAGGAGGAACCTGAGCCGCCAG	2727
Db	2662	TCCCCCAGCCCCACAACCTGGGTCTGGCTGGGCACTGACCAGGAGGAACCTGAGCCGCCAG	2603
Qy	2728	CTGGACCGGCAGTCCCCTGGCCCGCCCAAGGGGAGGGGAGCTGCCCCTGTGAGAGTGGG	2787
Db	2602	CTGGACCGGCAGTCCCCTGGCCCGCCCAAGGGGAGGGGAGCTGCCCCTGTGAGAGTGGG	2543
Qy	2788	GGAGGAGGGGAGGCCCCCTACCCTGGCCCCCTGGCCCTCCTGGGGGCACCACCAGCTCCTCA	2847
Db	2542	GGAGGAGGGGAGGCCCCCTACCCTGGCCCCCTGGCCCTCCTGGGGGCACCACCAGCTCCTCA	2483
Qy	2848	AGCACCCCTGGCCCCGAAAGGAGGCTGGGGGGCGGCGGAAGCGAGTAGAGTTTGTGACATTT	2907
Db	2482	AGCACCCCTGGCCCCGAAAGGAGGCTGGGGGGCGGCGGAAGCGAGTAGAGTTTGTGACATTT	2423
Qy	2908	GTGCCAGCCCCCTCCAGCCCAGTCACCTGAGGAGCCTGTAGGGGCCCTGCTGTGCAGTCC	2967
Db	2422	GCGCCAGCCCCCTCCAGCCCAGTCACCTGAGGAGCCTGTAGGGGCCCTGCTGTGCAGTCC	2363

```

Qy      2968 ATCCTTGTGGCAGGCGAGGAGGACATCCGCTGGGTGTGTGAGGACATGGGGCTGAAGGAC 3027
          |||
Db      2362 ATCCTTGTGGCAGGCGAGGAGGACATCCGCTGGGTGTGTGAGGACATGGGGCTGAAGGAC 2303

Qy      3028 CCTGAGGAGCTTCGCAACTACATGGAGAGGATCCGGGGCAGCTCC 3072
          |||
Db      2302 CCTGAGGAGCTTCGCAACTACATGGAGAGGAACCGGGGCAGCTCC 2258
<!--EndFragment-->

```